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SHEET <u>1</u> OF <u>13</u>

FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTY DOCKET NO.: CWP-012CN3

APPLICANT: David E. Charlton and

Neil W. Miller

SERIAL NO.: 09/441,875

FILING DATE: November 17, 1999 GROUP: 1641

EXAM.	DOCUMENT				SUB	FILING DATE I	
NIT.	IT. NUMBER DATE NAME		NAME	CLASS	CLASS	APPROPRIATE	
PT)	3,620,677	11/16/71	Morison, A.	23	253	<del>***</del>	
1	3,811,840	05/74	Bauer et al.	23	253 TP		
	3,888,629	06/75	Bagshawe	23	230 B		
	4,042,335	08/16/77	Clement, P.L.	23	253		
	4,045,384	08/77	Dorman	260	8		
	4,094,647	06/13/78	Deutsch et al.	23	253		
	4,168,146	09/18/79	Grubb et al.	23	230		
	4,169,138	09/25/79	Jonsson, U.R.S.	424	12		
	4,205,952	06/03/80	Cais	23	230 B		
	4,219,335	08/26/80	Ebersole	23	230 B		
	4,235,601	11/25/80	Deutsch et al.	23	230		
	4,256,834	03/17/81	Zuk et al.	435	7		
	4,258,001	03/24/81	Pierce et al.	422	56		
	4,294,818	10/81	McMichael et al.	424	. 12		
	4,297,344	10/27/81	Schwinn et al.				
	4,313,734	02/02/82	Leuvering	23	230		
	4,348,207	09/07/82	Cappel	23	230 B		
	4,357,142	11/02/82	Schall, Jr. et al.	23	230 B		
	4,361,537	11/30/82	Deutsch et al.	422	56		
	4,366,241	12/28/82	Tom et al.	435	7	<b>PT</b>	
PTD	4,366,241 B1	10/88	Tom et al.	435	7	Re-examination	

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**EXAMINER** 

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#### **U.S. PATENT DOCUMENTS** EXAM. DOCUMENT SUB FILING DATE IF INIT. APPROPRIATE NUMBER DATE NAME **CLASS CLASS** 4,373,932 02/15/83 Gribnau et al. 501 436 PTU 4,376,110 03/08/83 David et al. 436 513 4,411,518 10/25/83 Meserol et al. 356 39 4,419,453 12/06/83 Dorman et al. 436 534 4,434,150 02/28/84 Azad et al. 424 1.1 4,435,504 03/06/84 Zuk et al. 435 7 7 05/84 4,446,232 Liotta 435 07/10/84 Berke 170 4,459,358 436 4,477,575 10/16/84 Vogel et al. 170 436 4,861,711 08/29/89 Friesen et al. 436 7 4,486,530 12/04/84 David et al. 435 7 4,487,839 12/11/84 Kamentsky 518 436 4,496,654 01/29/85 Katz et al. 435 Gerber et al. 4,503,143 03/05/85 435 7 04/02/85 4,508,829 Sulitzeanu 436 510 4,537,861 08/27/85 Elings et al. 436 518 11/12/85 Gould et al. 435 7.9 4,552,839 05/20/86 Cragle et al. 523 4,590,169 436 4,594,327 06/10/86 Zuk 436 514 4,604,364 08/05/86 Kosak 436 501 PTD 11/18/86 4,623,461 Hossom et al. 210 445

DATE CONSIDERED

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#### **U.S. PATENT DOCUMENTS** EXAM. DOCUMENT SUB FILING DATE IF INIT. APPROPRIATE NUMBER DATE NAME **CLASS CLASS** 4,624,929 Ullman 11/25/86 PTD 436 179 4,632,901 12/30/86 Valkirs et al. 435 5 01/27/87 4,639,242 Babson 494 37 4,639,419 01/27/87 Olson et al. 435 5 4,647,544 03/03/87 Nicoli et al. 436 518 03/31/87 4,654,309 Milnar et al. 922 56 4,665,034 05/12/87 Chandler 435 287 4,690,907 Hibino et al. 09/01/87 436 514 4,703,017 10/27/87 Campbell et al. 436 518 4,756,828 07/12/88 Litman et al. 435 7.9 4,757,004 07/12/88 Houts et al. 7.9 435 08/02/88 Blatt et al. 4,761,381 436 165 4,770,853 09/13/88 Bernstein 422 58 4,772,550 09/20/88 Greenquist 435 7.9 09/27/88 4,774,192 Terminiello.et al. 436 540 4,778,751 10/18/88 El Shami et al. 435 7.9 4,803,170 02/07/89 Stanton et al. 436 518 02/21/89 4,806,311 Greenquist 422 56 4,853,335 08/01/89 Olsen et al. 436 527 PTT 4,859,612 08/22/89 Cole et al. 436 523 12/21/01 unsw **EXAMINER DATE CONSIDERED**

# INFORMATION DISCLOSURE STATEMENT

ATTY DOCKET NO.: CWP-012CN3

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		FILING DATE	: November 1	7, 1999	GROUP: 1641	
	U.S.	PATENT DOCUMENT	`S			
DOCUMENT	DATE	NAME	CLASS	SUB	FILING DATE IF APPROPRIATE	
	<u> </u>					
			435	7.9		
4,883,688	11/28/89	Houts et al.	427	285		
4,891,313	01/02/90	Berger et al.	436	7		
4,945,042	07/31/90	Geiger et al.	435	7		
4,956,302	09/11/90	Gordon et al.	436	161		
4,960,691	10/02/90	Gordon et al.	435	6		
4,962,023	10/09/90	Todd et al.	435	7		
4,963,468	10/16/90	Olson, J.D.	435	7		
4,981,785	01/01/91	Nayak	435	7		
4,985,204	01/15/91	Klose et al.	422	56		
5,008,080	04/16/91	Brown, III et al.	422	56		
5,030,558	07/09/91	Litman et al.	435	7.91		
5,039,607	08/13/91	Skold et al.	435	7.5		
5,043,428	08/27/91	Heimburger et al.				
5,075,078	12/24/91	Osikowicz et al.	422	56		
5,120,504	06/09/92	Petro-Roy et al.	422	58		
	unsw	DATE CONSI	DERED /	9/21/0	91	
	NUMBER  4,868,108  4,883,688  4,891,313  4,945,042  4,956,302  4,960,691  4,962,023  4,963,468  4,981,785  4,985,204  5,008,080  5,030,558  5,039,607  5,043,428  5,075,078  5,120,504	DOCUMENT         NUMBER         DATE           4,868,108         09/19/89           4,883,688         11/28/89           4,891,313         01/02/90           4,945,042         07/31/90           4,956,302         09/11/90           4,960,691         10/02/90           4,962,023         10/09/90           4,963,468         10/16/90           4,981,785         01/01/91           4,985,204         01/15/91           5,008,080         04/16/91           5,039,607         08/13/91           5,043,428         08/27/91           5,075,078         12/24/91	DOCUMENT         NAME           NUMBER         DATE         NAME           4,868,108         09/19/89         Bahar et al.           4,883,688         11/28/89         Houts et al.           4,891,313         01/02/90         Berger et al.           4,945,042         07/31/90         Geiger et al.           4,956,302         09/11/90         Gordon et al.           4,960,691         10/02/90         Gordon et al.           4,962,023         10/09/90         Todd et al.           4,963,468         10/16/90         Olson, J.D.           4,981,785         01/01/91         Nayak           4,985,204         01/15/91         Klose et al.           5,008,080         04/16/91         Brown, III et al.           5,030,558         07/09/91         Litman et al.           5,043,428         08/27/91         Heimburger et al.           5,075,078         12/24/91         Osikowicz et al.           5,120,504         06/09/92         Petro-Roy et al.	U.S. PATENT DOCUMENTS           DOCUMENT NUMBER         DATE         NAME         CLASS           4,868,108         09/19/89         Bahar et al.         435           4,883,688         11/28/89         Houts et al.         427           4,891,313         01/02/90         Berger et al.         436           4,945,042         07/31/90         Geiger et al.         435           4,956,302         09/11/90         Gordon et al.         436           4,960,691         10/02/90         Gordon et al.         435           4,962,023         10/09/90         Todd et al.         435           4,963,468         10/16/90         Olson, J.D.         435           4,981,785         01/01/91         Nayak         435           4,985,204         01/15/91         Klose et al.         422           5,008,080         04/16/91         Brown, III et al.         422           5,030,558         07/09/91         Litman et al.         435           5,043,428         08/27/91         Heimburger et al.         422           5,075,078         12/24/91         Osikowicz et al.         422           5,120,504         06/09/92         Petro-Roy et al.         422 </td <td>DOCUMENT NUMBER         DATE         NAME         CLASS         CLASS           4,868,108         09/19/89         Bahar et al.         435         7.9           4,883,688         11/28/89         Houts et al.         427         285           4,891,313         01/02/90         Berger et al.         436         7           4,945,042         07/31/90         Geiger et al.         435         7           4,956,302         09/11/90         Gordon et al.         436         161           4,960,691         10/02/90         Gordon et al.         435         6           4,962,023         10/09/90         Todd et al.         435         7           4,963,468         10/16/90         Olson, J.D.         435         7           4,981,785         01/01/91         Nayak         435         7           4,985,204         01/15/91         Klose et al.         422         56           5,008,080         04/16/91         Brown, III et al.         422         56           5,030,558         07/09/91         Litman et al.         435         7.5           5,043,428         08/27/91         Heimburger et al.         422         56           5,120,504</td>	DOCUMENT NUMBER         DATE         NAME         CLASS         CLASS           4,868,108         09/19/89         Bahar et al.         435         7.9           4,883,688         11/28/89         Houts et al.         427         285           4,891,313         01/02/90         Berger et al.         436         7           4,945,042         07/31/90         Geiger et al.         435         7           4,956,302         09/11/90         Gordon et al.         436         161           4,960,691         10/02/90         Gordon et al.         435         6           4,962,023         10/09/90         Todd et al.         435         7           4,963,468         10/16/90         Olson, J.D.         435         7           4,981,785         01/01/91         Nayak         435         7           4,985,204         01/15/91         Klose et al.         422         56           5,008,080         04/16/91         Brown, III et al.         422         56           5,030,558         07/09/91         Litman et al.         435         7.5           5,043,428         08/27/91         Heimburger et al.         422         56           5,120,504	

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# **U.S. PATENT DOCUMENTS**

EXAM.	DOCUMENT				SUB	FILING DATE IF	
INIT.	NUMBER	DATE	NAME	CLASS	CLASS	APPROPRIATE	
PYD	5,120,643	06/92	Ching et al.	435	7.92		
	5,141,850	08/25/92	Cole et al.	436	525		
	5,141,875	08/25/92	Kelton et al.	436	514		
	5,156,952	10/20/92	Litman et al.	435	7.91		
	5,164,294	11/17/92	Skold et al.	435	7.5		
	5,232,835	08/03/93	Litman et al.	435	7.93		
	5,248,619	09/28/93	Skold et al.	436	514		
	4,806,312	2/21/89	Greenquist	422	56		
	5,591,645	1/7/97	Rosenstein	436	514		
	4,515,889	5/7/85	Klose et al.				
	5,656,503	8/12/97	May et al.	436	514		
	5,686,315	11/11/97	Pronovst et al.	436	510		
	5,710,005	01/98	Rittenberg	435	6		
	5,753,517	05/98	Brooks et al.	436	514		
	5,622,871	04/97	May et al.	436	514		
	Re. 30,267	05/80	Bruschi				
	5,654,162	08/05/97	Guire et al.	435	7.92		
	5,073,484	12/17/91	Swanson et al.	435	7.92		
PT()	6,020,147	06/01/92	Guire et al.	435	7.92		
EXAMINER	Jμ	nsw	DAT	E CONSIDERED	19/2	101	

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EXAM. INIT.	DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS		SUB CLAS	ss		LING TE	ABST ONLY	TRACT Y	ENG!	
PYI	A 63,502/86	10/86	AU	5	-		7				<del></del>		<del>-</del>
	3,432,083 (Counterpart of US 5043428)	03/86	DE							Y		N	
	8 805 565 (Counterpart of EP 291194)		DE							Y		N	
	0,007,654	02/80	EPO				П						
	0,018,561 (Counterpart of US 4297344)	04/80	EPO							Y		N	
	0,032,270	07/81	EPO				П	$\exists$					
	0,063,810	11/82	EPO				П		-				
	0,088,636	09/83	EPO					1					
	0,183,442 A2	06/04/86	EPO									Y	
	0,149,168 A1	07/24/85	EPO					$\top$					
	0,154,749 A1	09/01/85	EPO			·		1					
	0,158,746	10/85	EPO				$\neg$	1					
	0,164,180	12/85	EPO					1					
	0 170 746 A1	02/12/86	EPO										
	0,186,799	07/86	ЕРО									full E	
	0 191 640 A2	08/20/86	EPO			i		1					
PVI)	0,201,079	11/86	EPO					1			~		
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**FORM PTO - 1449** INFORMATION DISCLOSURE STATEMENT ATTY DOCKET NO.: CWP-012CN3

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		FOREI	GN PATEN	T DOC	U.	MENTS	3				
EXAM. INIT.	DOCUMENT NUMBER	DATE	COUNTRY	CLAS	s	SUB CLAS S	FII DA	ING TE	ABSTR ONLY	ACT	ENGLISH LANG Y/N
PM)	0,212,603 A2	03/04/87	EPO	1	9	1	-		5	7	
1	0 225 054 A1	06/10/87	EPO					1			
	0 258 963 A2	03/09/88	ЕРО					$\top$			Y
	0 250 137 A2	12/87	EPO								
	0 258 963 A2	03/09/88	ЕРО								
	0271204A2	06/15/88	EPO							•	Y
	0,284,232 A1	09/28/88	ЕРО								
	0,284,232 B1	06/95	ЕРО								
	0,299,428 A2	01/08/89	EPO								
	0,291,194	11/17/88	EPO								
	0,306,336	03/89	ЕРО								
	0,337,082	10/89	ЕРО								
	0,349,215	01/90	ЕРО								
	0,320,240 B1	06/89	EPO								
	0,420,021 A2	04/03/91	EPO							٠	Y
	0,505,636 A1	09/30/92	ЕРО								Y
	0,560,410 A2	09/93	ЕРО								
	0,560,411	09/93	ЕРО							-	-
POD	2,356,944 (Counterpart of US 4094647)	01/27/78	FR		>	J			Y		No
EXAMINER	- nu	asw	Г	ATE CO	)NS	SIDEREI	)	19	121/0	7	

FORM PTO - 1449			ATTY DOCKET NO.: CWP-012CN3								
INFORMATION DISCLOSURE STATEMENT			APPLICANT: David E. Charlton and Neil W. Miller								
				SERIAL NO.: 09/441,875							
				FILING DA	ATE: No	vember 17	, 1999 GF	ROUP: 1641			
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EXAM. INIT.	DOCUMENT NUMBER	DATE	COUNTR	Y	SUB CLAS S	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N			
PMD	2 016 687 A	09/26/79	GB					Y			
	2,204,398	11/88	GB								
	8,703,007	01/89	NL								
	WO 86/03839	07/86	PCT					Y			
	WO 86/04683	08/14/86	PCT	435	7.9			Y			
	WO 87/02774	05/07/87	PCT	435	7.9			Y			
	WO 88/05912	08/88	PCT								
	WO 88/08534	11/03/88	PCT					Y			
	WO 91/12528	08/91	PCT								
	212,599 B1	10/30/91	EP					Y			
	192 320	8/27/86	EP								
PMD	3,044,385 (see US 4,515,889)	16/24/82	DE ·					N			
···		OTHER ART	Γ, JOURI	NAL ARTI	CLES,	ETC.	<u> </u>	•			
EXAM. INIT.	OTHER DOCUMEN	TS: (Including	Author, Ti	tle, Date, Rele	evant Pag	es, Place of	Publication)				
P10)		lled Nucleation J PHYSICAL SCI			Particle Siz	ze in Monoc	lisperse Gold Su	ispensions,"			
PM)		Evaluation of Co. scopy," 36 BIOI				ker for Tran	smission and Sc	canning			
M	Leuvering, et a	l, "Sol Particle I	mmunoassa	ry (SPIA), " 1 (	1) J. IMM	UNOASSA	Y 77-91 (1980)	) <b>.</b>			
EXAMIN	ER	unsw		DATE CO	NSIDERI	ED 19	121/01				

FORM P	<b>PTO - 1449</b> ATTY DOCKET NO.: CWP-012CN3							
INFORM	IATION DISCLOSURE STATEMENT	APPLICANT: David E. Charlton and Neil W. Miller						
		SERIAL NO.: 09/441,875						
		FILING DATE: November 17, 1999 GROUP: 1641						
	OTHER ART, JOUR	NAL ARTICLES, ETC.						
EXAM. OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) INIT.								
PM	Tijssen, LABORATORY TECHNIQUES IN BIOCHEMISTRY AND MOLECULAR BIOLOGY, Vol. 15, "Practice and Theory of Enzyme Immunoassays," Chapter 13 - The Immobilization of Immunoreactants on Solid Phases, 297-328.							
		Lou, et al., One-Step Competitive Immunochromatographic Assay for Semiquantitative Determination of Lipoprotein(a) in Plasma, 39(4) CLIN. CHEM 619-624 (1993).						
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	· •	Fichter, Ueber die kapillarelektrische Fällung positiver Kolloide, ZEITSCHRIFT FÜR CHEMIE UND INDUSTRIE DER KOLLIODE 1-2 (1911).						
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	J. Perrin, Mécanisme de L'Electrisation de PHYSIQUE 601-51 (1904).	Contact et Solutions Colloidales, TOME III J. DE CHIMIE						
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	H. Weil, Der Ursprung der Papierchromat	ographie, 40 Naturwissenschaften (1953), pp. 1-7						
Me)	Sahlbom, V.N., "Kapilaranalyse Kolloider Heft 3-4, pp. 79-140, Verlag Von Theodor	Lösungen", 2 KOLLOIDCHEMISCHE BEIHEFTE, Band II, Steinkopff, Dresden-A (1910-11).						
EXAMIN	ER Jursel	DATE CONSIDERED 12/21/07						

FORM P	TO - 1449	1449 ATTY DOCKET NO.: CWP-012CN3						
INFORM	IATION DISCLOSURE STATEMENT	APPLICANT: David E. Charlton and Neil W. Miller						
ĺ		SERIAL NO.: 09/441,875						
	FILING DATE: November 17, 1999 GROUP: 16							
	OTHER ART, JOURN	NAL ARTICLES, ETC.						
EXAM. OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) INIT.								
PTD	1	E. Blasius and M. Fischer, Papierchromatographische und papierionophoretische Trennung der Platinelemente und des Goldes, 177 Z. ANAL. CHEM. (1960), pp. 412-420						
	I I	E. Blasius and M. Fischer, Papierchromatographische und papierionophoretische Trennung der Elemente der Reduktiongruppe, 178 Z. ANAL. CHEM. (1960), pp. 28-33						
	F. Goppelstroder, VERHANDL 3 NATURF	ORSCH. GES. BASEL 268 (1861).						
	l	Zuk, R.F., et al., Enzyme Immunochromatography - A Quantitative Immunoassay Requiring No Instrumentation, CLINICAL CHEMISTRY, Vol. 31, No. 7, pp. 1144-1150 (1985).						
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pM)	54; 1898. (English Translation)	Metallischer Goldes", ANNALEN DER CHEMIE, 301, pp. 29-						
EXAMIN	ER Jursu	DATE CONSIDERED 19/21/04						
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FORM P	TO - 1449	ATTY DOCKET NO.: CWP-012CN3							
	ATION DISCLOSURE STATEMENT	APPLICANT: David E. Charlton and							
		Neil W. Miller							
		SERIAL NO.: 09/441,875							
	FILING DATE: November 17, 1999 GROUP: 164								
	OTHER ART, JOUR	NAL ARTICLES, ETC.							
EXAM. OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) INIT.									
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		SERIAL NO.: 09/441,875					
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